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Connector-plug part for an optical plug-in connection

This application is a National Stage of PCT/CH03/00339, filed 05/30/2003.

The invention relates to a connector-plug part for an optical plug-in connection according to the precharacterizing clause of claim 1. Such connector-plug parts are pre-assembled at the factory, the connection to the actual optical waveguide cable taking place directly at the connector-plug part by welding under conditions in the field. The pre-assembly is intended to allow the difficult centering and fixing of the optical waveguide in the connector-plug pin to be carried out under more suitable factory conditions.

Connector-plug parts of a comparable generic type have been disclosed for example by WO 96/31795 or by EP 864 888. For attaching the welding electrodes, special openings or clearances are provided. A disadvantage of the known connector-plug parts is that the welded location itself is difficult to access and that observation of the welding operation is also made more difficult. Furthermore, the bare optical waveguide in the direct region of the welded location is only insufficiently protected and safeguarded against tensile forces. It is therefore an object of the invention to provide a connector-plug part of the type stated at the beginning with the aid of which the welding operation at the fiber stub can be carried out as unhindered as possible and with good viewing conditions. It is intended in this case that both the pre-assembly and the final assembly of the connector-plug part can be carried out quickly and without complex auxiliary means. Finally, the welded location is also to be optimally protected against mechanical loading and against soiling after final assembly.

This object is achieved according to the invention by a connector-plug part which has the features in claim 1. The connector-